

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: METALUX

Report Number: P183797

Luminaire Tested: **24SR-LD2-59-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-59-C-UNV-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5739.5 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

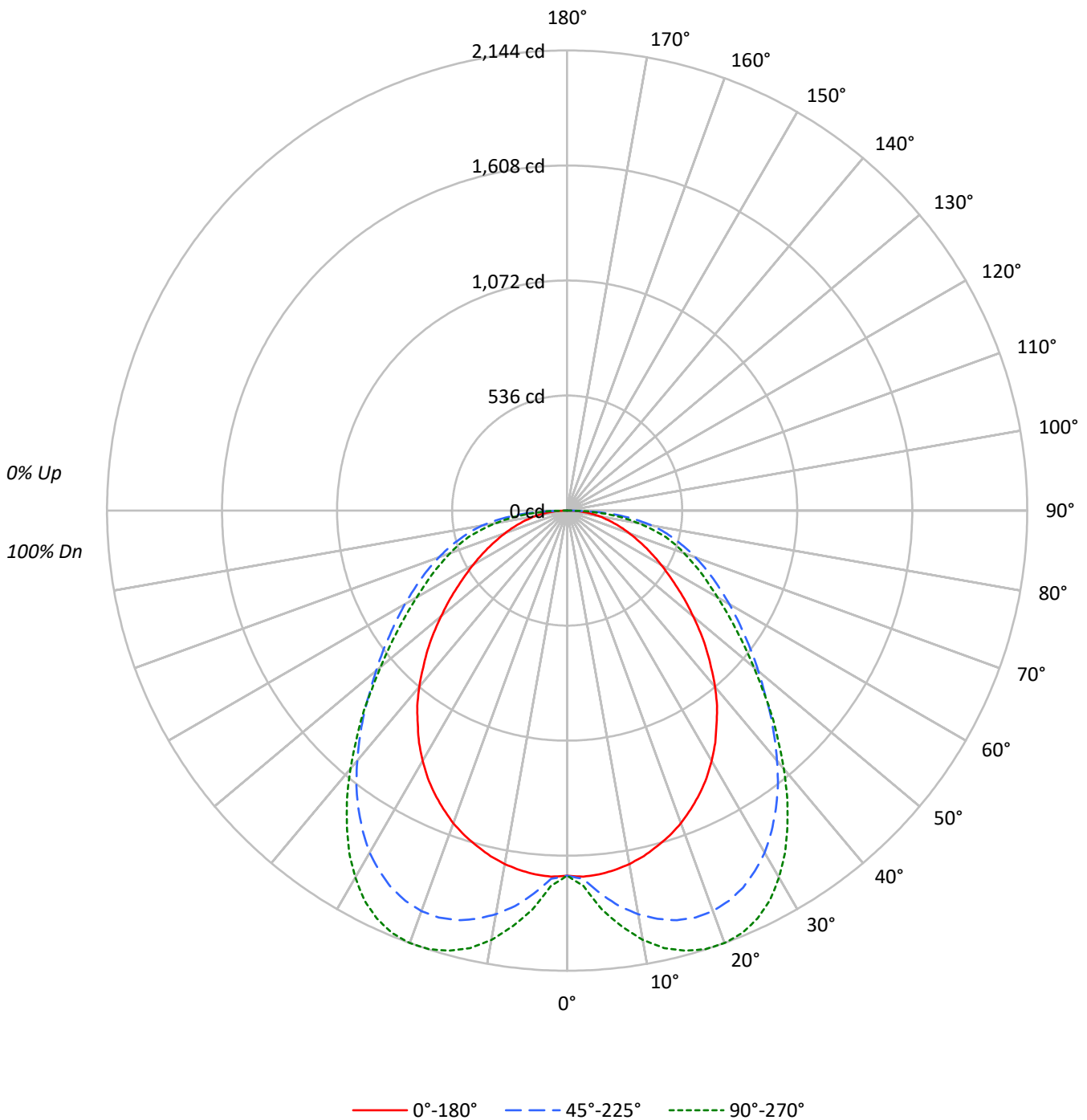
Input Watts (W): 50.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2289	2289	2289
5°	2298	2420	2520
10°	2284	2609	2775
15°	2255	2752	2957
20°	2220	2843	3071
25°	2165	2878	3114
30°	2092	2860	3067
35°	1993	2785	2940
40°	1883	2672	2758
45°	1749	2547	2566
50°	1604	2433	2376
55°	1472	2364	2244
60°	1361	2347	2179
65°	1273	2390	2197
70°	1211	2498	2282
75°	1172	2711	2476
80°	1185	3113	2613
85°	1241	3631	2845



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	3.0
10°-20°	547.5	9.5
20°-30°	864.2	15.1
30°-40°	1012.7	17.6
40°-50°	968.8	16.9
50°-60°	825.6	14.4
60°-70°	662.5	11.5
70°-80°	479.5	8.4
80°-90°	204.8	3.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1585.6	27.6
0°-40°	2598.3	45.3
0°-60°	4392.7	76.5
0°-90°	5739.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5739.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1702	1702	1702	1702	1702	
5°	1702	1733	1792	1854	1866	161
15°	1619	1813	1976	2094	2123	457
25°	1458	1739	1939	2070	2097	670
35°	1213	1511	1696	1786	1790	759
45°	919	1188	1339	1356	1349	708
55°	627	894	1008	980	957	563
65°	400	672	751	702	690	398
75°	225	476	521	480	476	239
85°	80	239	235	194	184	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1701.5	1701.5	1701.5	1701.5	1701.5
2.5°	1707.4	1709.3	1717.2	1750.5	1750.5
5°	1701.5	1732.8	1791.6	1854.4	1866.1
7.5°	1689.7	1760.3	1858.3	1938.7	1954.3
10°	1672.1	1789.7	1909.3	2007.3	2030.8
12.5°	1648.6	1807.3	1948.5	2060.2	2087.6
15°	1619.1	1813.2	1975.9	2093.5	2122.9
17.5°	1587.8	1811.3	1987.7	2113.1	2142.5
20°	1550.5	1795.6	1985.7	2117.0	2144.5
22.5°	1505.5	1774.0	1968.1	2101.4	2130.8
25°	1458.4	1738.7	1938.7	2070.0	2097.4
27.5°	1405.5	1697.6	1893.6	2021.0	2046.5
30°	1346.7	1644.6	1840.7	1954.3	1973.9
32.5°	1283.9	1581.9	1772.0	1875.9	1889.7
35°	1213.4	1511.3	1695.6	1785.8	1789.7
37.5°	1146.7	1434.9	1613.3	1685.8	1683.8
40°	1072.2	1352.6	1521.1	1579.9	1570.1
42.5°	993.8	1270.2	1429.0	1470.2	1456.4
45°	919.3	1187.9	1338.8	1356.5	1348.6
47.5°	842.9	1105.6	1244.7	1258.5	1234.9
50°	766.4	1031.1	1162.4	1156.5	1135.0
52.5°	695.9	962.5	1084.0	1066.4	1042.8
55°	627.3	893.9	1007.6	980.1	956.6
57.5°	562.6	833.1	938.9	901.7	880.1
60°	505.7	774.3	872.3	829.2	809.6
62.5°	450.9	721.4	809.6	764.5	744.9
65°	399.9	672.4	750.8	701.8	690.0
67.5°	350.9	623.4	692.0	644.9	631.2
70°	307.8	572.4	635.1	588.1	580.2
72.5°	264.6	525.3	578.3	535.1	529.3
75°	225.4	476.3	521.4	480.3	476.3
77.5°	186.2	423.4	464.6	415.6	405.8
80°	152.9	370.5	401.8	345.0	337.2
82.5°	115.7	305.8	321.5	270.5	266.6
85°	80.4	239.1	235.2	194.1	184.3
87.5°	43.1	143.1	125.5	100.0	96.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)